

**R17**

Code No:843AB

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

**MCA III Semester Examinations, March/April - 2022**

**COMPUTER NETWORKS**

**Time: 3 Hours**

**Max.Marks:75**

**Answer any five questions**  
**All questions carry equal marks**

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1. Differentiate between the OSI & TCP/IP models. [15]
2. Illustrate different types of transmission media, highlight their merits and demerits.[15]
- 3.a) Compare various sliding window protocols of data link layer.  
b) What is slotted ALOHA? Mention its advantages and disadvantages. [7+8]
4. What is CSMA? Differentiate between 1-persistent, non-persistent and p-persistent CSMA. [15]
5. Compare and contrast link-state and distance-Vector routing algorithms. [15]
6. What is DNS? What are the services provided by DNS and explain how it works?[15]
- 7.a) What are the services provided by transport layer to the upper layers?  
b) Compare TCP and UDP protocols. [8+7]
- 8.a) What is an electronic mail? Describe in brief about sending and receiving e-mail.  
b) Explain the significance of HTTP in WWW. [8+7]

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